

wherein said edge shifting values are determined by combinations of a length $M(n)$ of a mark being currently written and at least one of a length $s(n-1)$ of a space precedent to the mark and a length $s(n+1)$ of a space subsequent to the mark, and which can be positive and negative.

8. (thrice amended) A recording medium comprising:
a disk-shaped substrate;
at least one track being provided on the disk-shaped substrate;
a zone including said at least one track therein;
wherein said zone stores a lookup table having information about edge shifting values of at least one of a leading and trailing edge of at least one recording pulse; and

wherein said edge shifting values are for at least one recording pulse for recording a mark $3T_w$ long, where T_w is a time width.

9. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading edge of a first recording pulse and a trailing edge of a last recording pulse of a plurality of recording pulses.

10. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of a first recording pulse and a trailing edge of a last recording pulse of a plurality of recording pulses.

11. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading edge of a first recording pulse and a leading and trailing edge of a last recording pulse of a plurality of recording pulses.

12. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of each of first and a last recording pulse of a plurality of recording pulses.

13. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading edge of a first recording pulse of a plurality of recording pulses.

14. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of a first recording pulse of a plurality of recording pulses.

15. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a trailing edge of a last recording pulse of a plurality of recording pulses.

16. (twice amended) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of a last recording pulse of a plurality of recording pulses.

19. (amended) A recording medium according to claim 7, wherein said edge shifting values are for at least one of a leading and trailing edge of one recording pulse for recording a mark $3T_w$ long, where T_w is a time width.

Please add the following new claim: